

CLAIM LISTING

Please find below a complete listing of presently pending claims with status identifiers. This listing of claims will replace all prior versions, and listings, of claims in the application.

1-19. Cancelled.

20. (Original) A fixed tissue comprising cross-linked elastin, wherein the elastin is cross-linked with a phenolic tannin cross-linking agent.

21. (Original) The fixed tissue of claim 21, further comprising cross-linked collagen, wherein the collagen is cross-linked with a glutaraldehyde cross-linking agent.

22. (Original) The fixed tissue of claim 21, wherein the tissue exhibits at least about 60% less calcification over time as compared to a similar tissue fixed with only a glutaraldehyde fixative.

23. (Original) The fixed tissue of claim 20, wherein the fixed tissue comprises at least about 10% elastin by weight.

24. (Original) The fixed tissue of claim 20, wherein the phenolic tannin cross-linking agent is tannic acid.

25. (Original) The fixed tissue of claim 20, wherein the fixed tissue has a temperature of thermal denaturation greater than about 70°C.

26. (Original) The fixed tissue of claim 20, wherein the fixed tissue has a temperature of thermal denaturation greater than about 80°C.

27. (Original) The fixed tissue of claim 20, wherein the fixed tissue exhibits less than about 20% degradation following exposure to elastase for a period of about 48 hours.

28. (Original) The fixed tissue of claim 20, wherein the tissue is selected from the group consisting of bovine and porcine tissue.

29. (Original) The fixed tissue of claim 20, wherein the tissue is selected from the group consisting of pericardium, aortic wall, heart valve, and vena cava tissue.

30. (Withdrawn) A bioprosthesis comprising:

a fixed tissue comprising elastin cross-linked with a tannic acid cross-linking agent; and

a support material attached to the fixed tissue.

31. (Withdrawn) The bioprosthesis of claim 30, in which the tissue has an elastin content of greater than about 10% by weight of the tissue.

32. (Withdrawn) The bioprosthesis of claim 30, in which the tissue further comprises collagen cross-linked with a glutaraldehyde cross-linking agent.

33. (Withdrawn) The bioprosthesis of claim 30, wherein the tissue is an anisotropic tissue.

34. (Withdrawn) The bioprosthesis of claim 33, wherein the anisotropic tissue exhibits greater stiffness in a first direction and greater elasticity in a second direction.

35. (Withdrawn) The bioprosthesis of claim 30, wherein the tissue is selected from the group consisting of pericardium, aortic wall, heart valve and vena cava tissue.

36. (Withdrawn) The bioprosthesis of claim 30, wherein the tissue is porcine vena cava tissue.

37. (Withdrawn) The bioprosthesis of claim 30, wherein the support material comprises a stent.

38. (Withdrawn) The bioprosthesis of claim 30, wherein the support material comprises a suture ring.

39. (Withdrawn) The bioprosthesis of claim 30, wherein the bioprosthesis is a bioprosthetic heart valve.

40. (Withdrawn) The bioprosthesis of claim 30, wherein the bioprosthesis exhibits at least about 60% less calcification over time as compared to a similar bioprosthesis in which the tissue is fixed with only glutaraldehyde.

41-46. Cancelled.